

## Abstract of the Invention

A scheduler in, for example, an off-load engine  
5 reports events for processing data frames to processing  
engines. Each event to report has associated to it an event  
information to report to a respective processing engine for  
processing, for example, a data frame. Responsive to a prompt  
having a specified time, a processor looks up the event  
10 information to report at the specified time in one or more  
memories. For each event information to report at the  
specified time, at least some of the event information is  
forwarded to the respective processing engine. A state machine  
is used as the processor to implement functionality of the  
15 scheduler in hardware thereby providing off-loading of  
processing in the off-load engine from software to hardware.